

PPS-SGM651E65

Polyphenylene Sulfide Resins

产品描述

Description:

Sciengy® PPS-SGM651E65 是一种 65%玻璃纤维和矿物增强的线性聚苯硫醚改性材料，具备高模量，低形变，卓越的机械性能和电性能

PPS-SGM651E65 is a 65% glass fiber and mineral reinforced linear polyphenylene sulfide compound developed to provide high modulus, low warp, excellent mechanical and electrical performance

物理性能 Physical Properties	单位 Units	检测标准 Test Standard	典型值 Value
密度 Density	kg/m ³	ISO 1183	1930
成型收缩率 - 平行 Mold shrinkage(Machine Direction)	%	GB/T 15585	0.3
成型收缩率 - 垂直 Mold shrinkage(Transverse Direction)	%	GB/T 15585	0.5
吸水率 (23°C-sat) Water absorption (23°C-sat)	%	ISO 62	0.02
机械性能 Mechanical Properties	单位 Units	检测标准 Test Standard	典型值 Value
拉伸强度 Tensile stress at break(5mm/min)	MPa	ISO 527	165
拉伸模量 Tensile modulus at break (1mm/min)	Mpa	ISO 527	18500
断裂伸长率 Elongation at break (23°C)	%	ISO 527	1.0
弯曲模量 Flexural Modulus at break (23°C)	GPa	ISO 178	20
弯曲强度 Flexural Strength at break	MPa	ISO178	255
缺口冲击强度 Charpy Impact Strength@23°C (V-notched)	kJ/m ²	ISO 179	8.0
无缺口冲击强度 Unnotched Charpy Impact Strength@23°C	kJ/m ²	ISO 179	40
热性能 Thermal Properties	单位 Units	检测标准 Test Standard	典型值 Value
熔化温度(10°C/min) Melting temperature (10°C/min)	°C	ISO 11357	280
热变形温度 Heat Deflection Tem p High Load (1.8MPa)	°C	ISO 75	265
线性膨胀系数 Coeff.of Linear Them.expansion(parallel)	E-4/°C	ISO 11359-2	0.20
线性膨胀系数 Coeff.of Linear Them.expansion((normal))	E-4/°C	ISO 11359-2	0.30

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阻燃性. Flammability (0.3mm)	class	UL-94	V-0
阻燃性. Flammability (3.0mm)	class	UL-94	V-0
电性能 Electrical properties	单位 Units	检测标准 Test Standard	典型值\ Value
介电强度 Dielectric Strength	KV/mm	IEC 60243	15
介电常数 Relative Permittivity(4GHZ)		IEC 60250	5.0
损耗系数 Dissipation Factor(4GHZ)		IEC 60250	0.002
体积电阻率 Volume resistivity	$\Omega \cdot \text{cm}$	IEC 60093	10^{15}
表面电阻率 Surface resistivity	$\Omega \cdot \text{cm}$	IEC 60093	10^{15}
漏电起痕指数 CTI	V	IEC 60112	>220
注塑条件 Injection Processing	单位 Units	检测标准 Test Standard	典型值 Value
预干燥 Drying Temp./Time			150°C&3h
注射压力 Injection Pressure	MPa		30~100
注塑成型熔体温度 Injection Molding Melt Temp.	°C	ISO 294	290~330
注塑成型模具温度 Injection Molding Mold Temp.	°C	ISO 294	120~160
筒内极限驻留时间 Limit in-cylinder retention time			300°C/60min 320°C/30min

免责声明

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